**Author:**

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**Lesson Title:**

Are you coordinated?

**Student Prior Knowledge:**

Students are learning how to solve mathematical equations and plot them on a coordinate graph, while identifying the correct quadrant.

**Standards:**

MA.C.3.1.2.2.2. The student locates and identifies the coordinate points of objects on a coordinate grid (first quadrant).

**Goals:**

Students will learn how to locate coordinate points on a grid. They will create a graph during the lesson and identify the coordinate point.

**Materials:**

* Poster of a grid
* Markers
* Pencils
* Old workbooks or clip art from word processing program
* 5 pairs of stickers per student (ex. 2 red stickers, 2 frog stickers, etc.)
* One copy of grid paper for each student

**Procedures:**

1. Get students attention by telling them that today they will be learning about a special type of graph called a coordinate graph.
2. Introduce a grid by showing the poster of the grid. Explain that a grid has horizontal and vertical lines by pointing out each type of line to the students. Tell the students that an object is going to be placed on the grid, and they will learn how to find their way to the object.
3. Point out to students that the starting point on this graph is the left corner at the bottom of the grid where the word start is located. Then they move over to the right counting each vertical line until they get under the object they are trying to find. They write this number down in the box beside the picture under the arrow pointing to the right.
4. Next, they need to count each horizontal line moving up toward the top of the graph until they are on top of the object. They write that number down in the box beside the picture under the arrow pointing up toward the top of the grid.
5. The teacher glues a clipart picture on the grid at coordinate (2,3).
6. The teacher demonstrates for students how to move over 2 vertical lines and move up 3 horizontal lines. Emphasize over 2 and up 3.
7. Explain to students that coordinate points come in pairs, so (2,3) would be coordinate points to locate this picture.
8. Glue another clipart picture on the grid. Call on students to tell you the coordinate points.
9. Repeat number 8 as many times as needed for students to grasp the concept.
10. Hand out the student worksheet from the attached file and 10 stickers (5pairs of stickers) to each student.
11. Have students create their own graph by placing 5 different stickers on the grid where the horizontal lines cross the vertical lines
12. Then, direct students to stick the matching 5 stickers in the blocks where the coordinate points can be written beside them.
13. Students complete the worksheet by locating each sticker and writing the coordinate points in the boxes by each corresponding sticker.
14. Teacher assesses activity.

**Assessment:**

Students should complete the assessment worksheet with 80% accuracy.

**Extensions:**

You can have students create the coordinate graph, exchange papers with a partner, and complete their partner’s graph to complete the lesson.

**Reflections:**

N/A